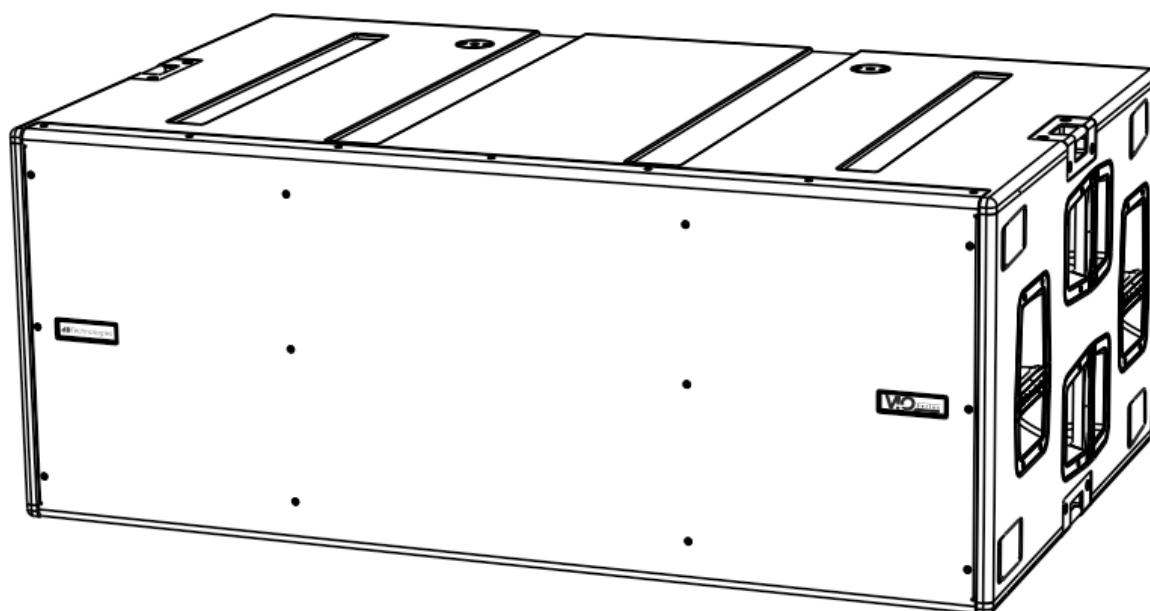




VIO S318



Quick start user manual *Section 1*

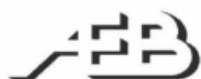
The warnings in this manual must be observed together with the "USER MANUAL - Section 2".

Le avvertenze nel presente manuale devono essere osservate congiuntamente al "MANUALE D'USO - Sezione 2".

Die Warnungen in diesem Handbuch müssen in Verbindung mit der "BEDIENUNGSANLEITUNG - Abschnitt 2" beobachtet werden".

Les avertissements spécifiés dans ce manuel doivent être respectés ainsi que les "CARACTERISTIQUES TECHNIQUES - Section 2"

Las advertencias del presente manual se deben tener en cuenta conjuntamente con las del "MANUAL DEL USUARIO" - Sección 2".



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Thank you for choosing a dBTechnologies Product!

VIO S318 is an active semi-horn loaded subwoofer, designed for professional use, bassreflex, equipped with three 18" woofers (voice coil: 4").

The triple powerful DIGIPRO® G3 amplifier section, capable of handling up to 2700 W (RMS power), is controlled by a DSP, which can perform a detailed customization of the output sound of the subwoofer. In particular, thanks to the complete control interface, it is possible to accurately tune various types of configurations, like cardioid or end-fire. The RDnet connections allow an in-depth remote control, thanks also to free available software (dBTechnologies Network and dBTechnologies Composer). Professional accessories (like DRK-210 fly-bar, DO-VIOS318 dolly) allow an easy set-up to create professional configurations, completing live installations with VIO-L210 line-arrays.

Check the site www.dbtechnologies.com for the complete user manual!

1) Unpacking

The box contains:

N°1 VIO S318

N°1 Mains cable with Neutrik® powerCON TRUE1 connector

This quick start and warranty documentation

2) Easy installation

VIO S318 is equipped with:

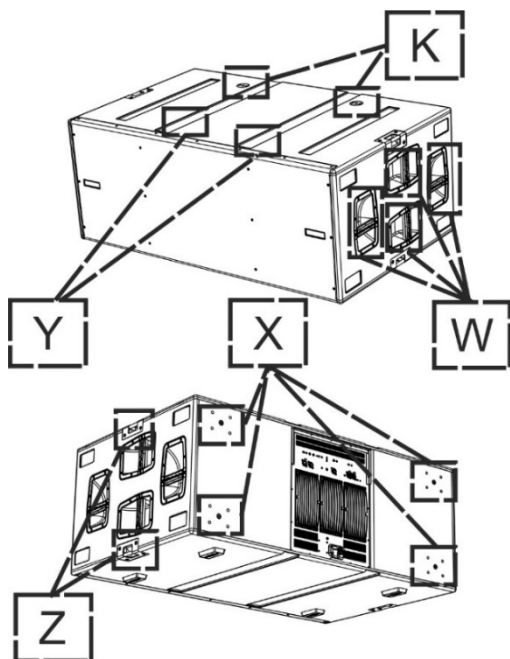
Pick points for quick-release pins. Designed for DRK-210 fly-bar mounting (K)

4 handles per side, for vertical/horizontal handling (W)

Rear threaded holes for wheel mounting – SWK18 optional KIT (X)

Cable tracks to house cables in stacked installation (Y)

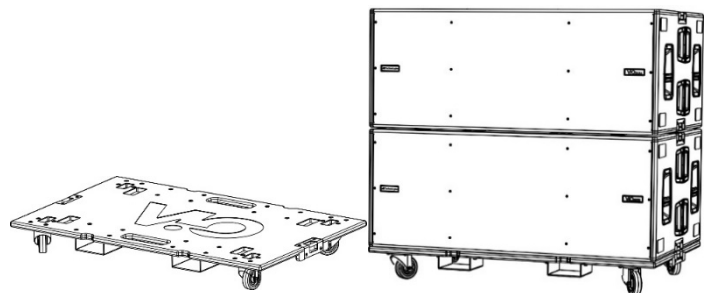
Roping points (Z) to secure the subwoofer



These mounting holes, handles, and mechanical devices are used to install S318 in different configurations for various stage needs. In particular some installation examples are shown in the following pictures, thanks to the compatibility with useful accessories among others:

a) DO-VIOS318

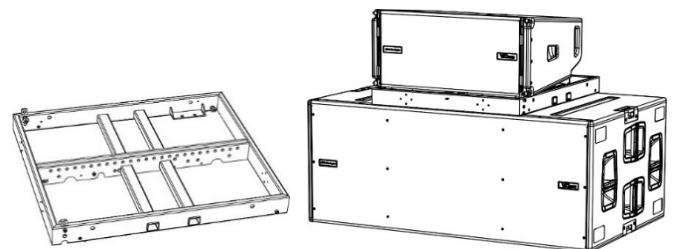
DO-VIOS318 is a dolly specifically designed for an easy and safe handling of up to three S318 subwoofers. It is equipped with 4 brakes, and allows a convenient use of forklift for heavy handling. In stacked handling of more than one VIO S318 it is necessary the use of straps to ensure a safe placement.



Example 1: DO-VIOS318 for easy and safe stage-handling

b) DRK-210

DRK-210 is a fly-bar designed for VIOL210 line arrays. VIO S318 is compatible with it, allowing stacked mounting for different configuration needs.



Example 2: DRK-210 for VIOL210-stacked configuration

For further and detailed information please refer to the related accessories user manual.



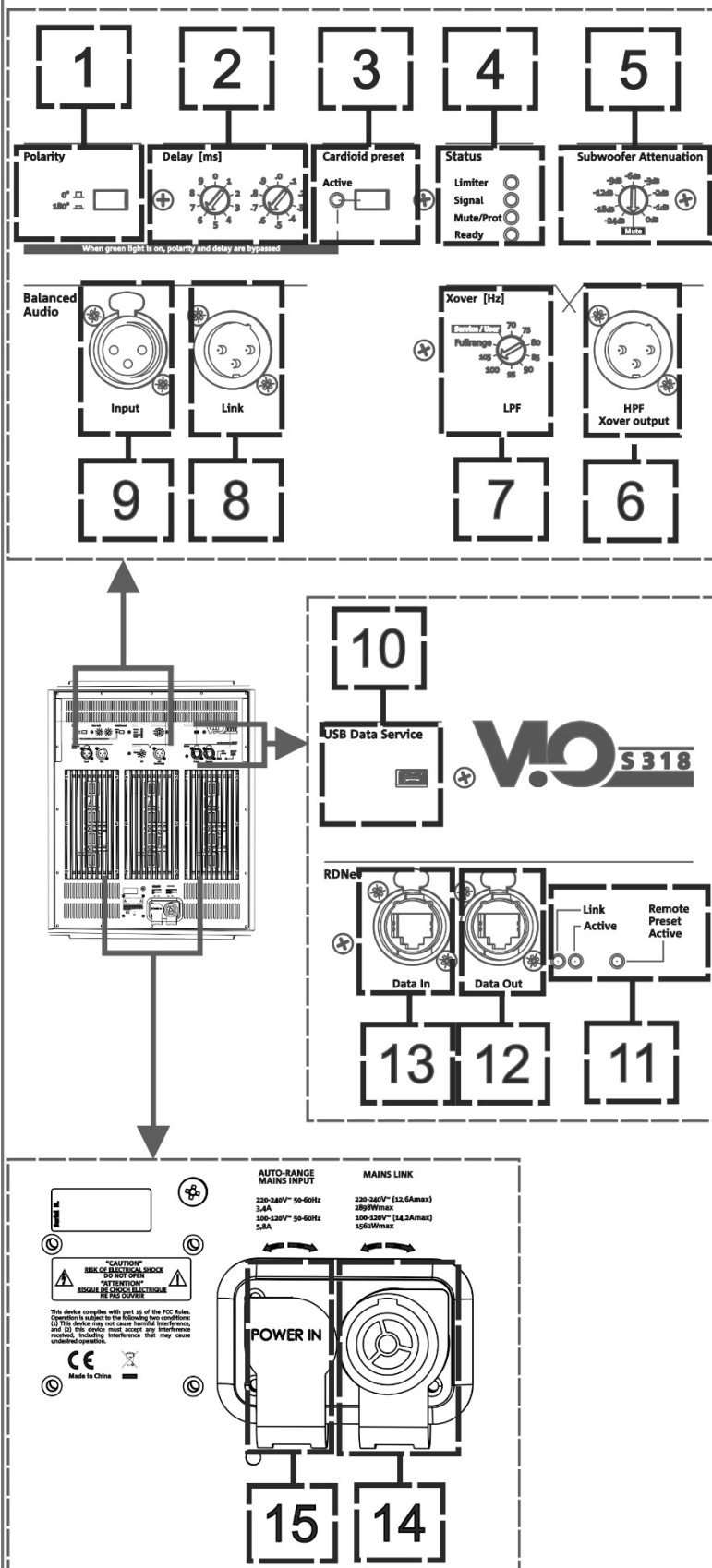
Don't use handles and/or roping points to suspend VIO S318!



For installation of professional audio equipment use only specialist personnel! Make sure that the installation is positioned in a stable and secure way in order to avoid any dangerous conditions for people, animals and/or objects. It is mandatory to follow the safety law and regulations of the Country in which the equipment is installed.

3) First switch on

The 3 DIGIPRO G3 amplifiers of VIO S318 are controlled by a powerful DSP. All the connections and controls are in the rear amplifier control panel:



- 1 – Polarity switch
- 2 – Delay rotary controls
- 3 – Cardioid preset switch
- 4 – Status LEDs (Limiter, Signal, Mute/Protection, Ready)
- 5 – Subwoofer attenuation rotary control
- 6 – HPF Xover (balanced) output
- 7 – Xover rotary control
- 8 – Link (balanced) connector
- 9 – Input (balanced) connector
- 10 – USB Data Service
- 11 – RDNet status LEDs
- 12 – RDNet Data Out
- 13 – RDNet Data In
- 14 – Mains Link connector
- 15 – Auto-Range Mains input connector

a) Once you have properly set up the desired configuration (see also the VIO S318 complete user manual and accessories instructions for further information), connect the audio input (9). Set the Subwoofer attenuation (5) to the desired level.

b) Connect the possible output direct link (8), and/or HPF Xover output (6). Set the Xover rotary control (7) to the correct frequency. This filter acts on internal transducers and on HPF Xover output (6). It does not affect the link (8) output.

c) Choose the Subwoofer Setup (Polarity and Delay 1, 2) to obtain the correct behavior. In cardioid configuration, please note that the cardioid preset switch (3), when active, bypasses Polarity and Delay controls.

d) In case of remote control, connect the Data Input (13) to the hardware remote controller (RDNet Control 2 or RDNet Control 8) with cables equipped with etherCON connectors. Then connect the Data Output (12) to the Data Input (13) of a possible second device, and so on. When the RDNet network is on and it has recognized the connected device, the LED "Link" (11) is on. The other LEDs (11) "Active" start blinking at the presence of data transmission, the "Remote Preset Active" advises that all the local controls set on the amplifier panel (level, DSP presets, etc.) are by-passed and controlled remotely by RDNet.

In remote control it is essential the use of free dBTechnologies software:

- **dBTechnologies Network,**

useful for an in-depth control of different devices in remote connection;

- **dBTechnologies Composer,**

useful for the complete sound system design for various professional needs, particularly developed for VIO series.

e) Connect the power supply (15). It is possible to link up to 4 VIO S318 at 220V-240V, or 3 VIO S318 at 100-120V with the related mains link connector (14).



In configurations with more than one VIO S318, please pay attention to inrush current.

For further information, download the complete user manual and the free software:

www.dbtechnologies.com/EN/Downloads.aspx
or scan the QR code.

Technical Data

Speaker Type: Active professional subwoofer

Acoustical data

Frequency Response [-6 dB]: 39 Hz - Cut frequency
(crossover - dependent)

Frequency Response [-10 dB (HPF)]: 35 Hz

Max SPL (1 m): 143 dB

LF: 3 x 18"

LF Voice Coil: 4"

Crossover freq.: 70 to 105 Hz (step 5 Hz) + fullrange

Directivity: (omnidirectional) Cardioid with DSP

Amplifier

Amp Technology: 3x Digipro® G3 independent management

Power supply: Autorange

Amp Class: Class-D

RMS Power: (3x) 900 W

Peak Power: (3x) 1800 W

Cooling: Passive (convection)

Processor

Controller: DSP, 32/64 bit 96 kHz

Limiter: Peak, RMS, Thermal

Controls: Rotary Delay Control (0-9.9 ms, steps: 0.1 ms) and switches (Outputs Mode, Phase, Xover), Subwoofer level

Input

Mains connections: PowerCON® TRUE1 In/link

Power consumption: 3.4 A (220-240 V) / 5.8 A (100-120 V)

Maximum number of power linked elements: up to 4 VIO S318 (220-240 V), up to 3 VIO S318 (100-120 V)

Signal Input: (Balanced) 1x IN (female)

Signal Out: (Balanced) Link & Xover OUT (male)

RDNET connectors: Data In / Data Out

USB connector: mini USB B-type (for SERVICE DATA)

Mechanics

Housing: Wooden box/black polyurea finish

Grille: Full metal (CNC machining)

Handles: 4 per side

Roping points: integrated, 2 x side

Pick points (stack mode): yes (on top for DRK210)

Width: 1300 mm (51.18 in)

Height: 520 mm (20.47 in)

Depth: 800 mm (31.50 in)

Weight: 103.9 kg (229.06 lbs.)



Scan with your QR Reader
App to download the
complete User Manual

Download the complete user manual on:

www.dbtechnologies.com/EN/Downloads.aspx

EMI CLASSIFICATION

According to the standards EN 55103 this equipment is designed and suitable to operate in E3 (or lower E2, E1) Electromagnetic environments.

FCC CLASS B STATEMENT ACCORDING TO TITLE 47, PART 15, SUBPART B, §15.105

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

WARNING: Make sure that the loudspeaker is securely installed in a stable position to avoid any injuries or damages to persons or properties. For safety reasons do not place one loudspeaker on top of another without proper fastening systems. Before hanging the loudspeaker check all the components for damages, deformations, missing or damaged parts that may compromise safety during installation. If you use the loudspeakers outdoor avoid spots exposed to bad weather conditions.

Contact dB Technologies for accessories to be used with speakers. dBTechnologies will not accept any responsibility for damages caused by inappropriate accessories or additional devices.

Features, specification and appearance of products are subject to change without notice.

dBTechnologies reserves the right to make changes or improvements in design or manufacturing without assuming any obligation to change or improve products previously manufactured.